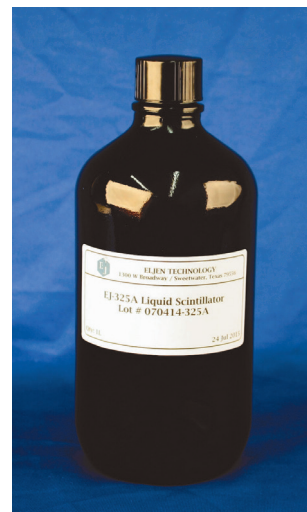


MINERAL OIL BASED LIQUID SCINTILLATOR WITH PSD EJ-325A

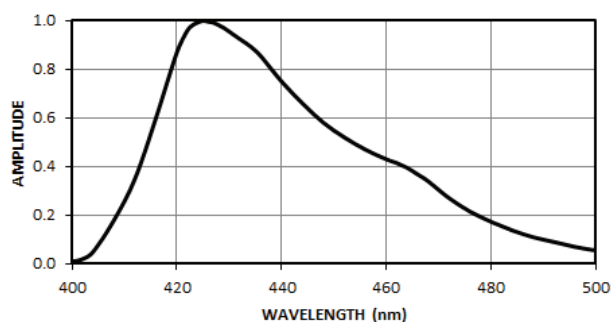
EJ-325A is a mineral oil based liquid scintillator having pulse shape discrimination (PSD) properties for the separation of fast neutrons and gammas. EJ-325A replaces the original EJ-325. The new formula exhibits slightly improved scintillation efficiency and PSD properties and, importantly, has a very high flash point for safety and ease of shipping. With mineral oil as a major solvent component, EJ-325A possesses greater optical clarity for use in large tanks.

EJ-325A exhibits considerably low solvent properties making it ideal for incorporation in containers fabricated with cast acrylic and PVC.



PROPERTIES	EJ-325A
Light Output (% Anthracene)	62
Scintillation Efficiency (photons/1 MeV e ⁻)	9,500
Wavelength of Maximum Emission (nm)	425
Decay Time, Short Component (ns)	~ 3.5
Bulk Light Attenuation Length (m)	> 1
Specific Gravity	0.954
Refractive Index	1.55
Flash Point (°C)	146
Boiling Range (°C at 1 atm)	290 - 300
Vapor Pressure (mm Hg, at 20°C)	0.002
H Atoms per cm ³ (×10 ²²)	6.73
C Atoms per cm ³ (×10 ²²)	3.92
Electrons per cm ³ (×10 ²³)	3.02

EJ-325A EMISSION SPECTRUM



Revision Date: Jul 2021



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